



**Central University of Himachal Pradesh**

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

Dharamshala, Himachal Pradesh-176215



# **NAAC Criterion-I**

## **Key Indicator –1.1.2**

**Approved Minutes of relevant BOS  
meeting highlighting the syllabus revision**

### **1.1.2Evidences**



**Department of Chemistry and Chemical Science**  
**Central University of Himachal Pradesh, Dharamshala,**  
**Kangra**



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### Department of Chemistry and Chemical Science

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2	Approved Minutes of the 3 <sup>rd</sup> BoS meeting highlighting the syllabus revision dated 22/05/2019	CCS-BoS-3/19-1 and CCS-BoS-3/19-2 20% Revision	6-14
3	Approved Minutes of the 5 <sup>th</sup> BoS meeting highlighting the syllabus revision dated 23/09/2021	CCS-BoS-5/21-2 and CCS-BoS-5/21-3 25 % Revision	15-20

# **SECOND BOARD OF STUDIES MEETING**

**24th April, 2018**

**Department of Chemistry and Chemical Sciences  
School of Physical and Material Sciences**



## **Minutes of the Meeting**

**CENTRAL UNIVERSITY OF HIMACHAL PRADESH**

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Dharamshala, District Kangra - 176215 (HP)

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Dharamshala, District Kangra - 176215 (HP)

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Minutes of the Second Meeting of Board of Studies (BoS) of the Department of Chemistry and Chemical Sciences, SoPMS held on 24<sup>th</sup> April, 2018 at TAB Dhauladhar campus

## Agenda Index

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CCS-BoS-2/18-5	Approval of the extended Expert's List for the Department of Chemistry and Chemical Sciences	Annexure-IV
CCS-BoS-2/18-6	Any other item with the permission of the Chair	

*[Handwritten signatures and dates]*  
24/4/2018  
24/4/18  
24/4/18  
24/4/2018





syllabus for these courses AND/OR can consult the syllabus of the special paper which has been decided as per **Agenda Item No. - CCS-BoS-2/18-1** for each specialization.

All members agreed and approved the above.

In the 4<sup>th</sup> semester (Spring 2019), individual specialized papers will be offered (Organic Chemistry, Inorganic Chemistry, Physical Chemistry) as planned and approved in the first meeting of BOS. Maximum ten (10) students will be allowed to take any one specialization among Organic Chemistry, Inorganic Chemistry, and Physical Chemistry specialization. Students will be shortlisted on the basis of their B.Sc. marks and their results up to the first two semesters. This will also be based on their preferences (choice of specialization) depending on their overall merit.

All members agreed and approved this.

**Agenda Item No. - CCS-BoS-2/18-4:** To decide mode of conducting Practical Examination & distribution of marks

**Decision:**

Considering the present infrastructure of the chemistry laboratory, practical examination will be taken at the end of the semester (End-Term) only and no mid-term examination for practical courses will be conducted. Marks will be distributed as per the following scheme:

1. Continuous internal assessment (20 marks) to be given in mid semester (Mid-Term)
2. Practical experiment (50 marks)
3. Viva-Voce (20 marks)
4. Laboratory Note Books (10 Marks)

This change is in consonance with the CUHP ordinance no.-30 (pt. 6), which stated that "Depending upon the nature and requirements of a particular course, individual Departments/Centres shall, within the overall framework of Comprehensive Continuous Internal Assessment (CCA) prescribed by the School Board concerned, have freedom to prescribe additional/different components and weightage for different component. Provided that the weightage of the End-Semester Examination shall not be less than 50%."

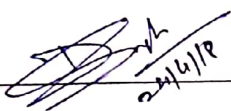
All members agreed and approved the above.

**Agenda Item No. - CCS-BoS-2/18-5:** Approval of the extended Expert's List for the Department of Chemistry and Chemical Sciences.

The extended Expert's list is given in Annexure-IV

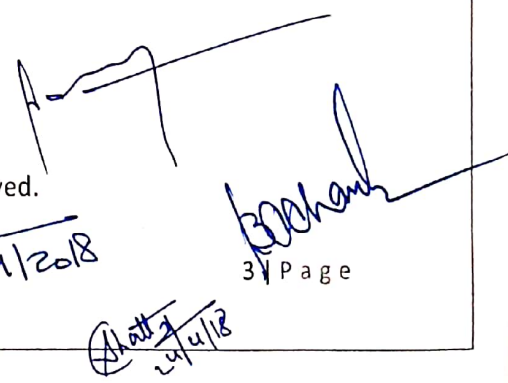
**Decision:**

The extended examiner's list as given in Annexure-IV was approved.

  
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24/4/18

  
24/4/2018  
Page 4

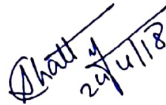
  
24/4/18  
3 Page


**Agenda Item No. - CCS-BoS-2/18-6: Any Other Item with the Permission of the Chair**


Following suggestions have been made by the Subject Experts and Board members:


1. No external examiner shall be repeated for two semesters continuously.
2. For the IV semester the theory papers shall be decided by the convener/In-charge/HOD as per the availability of resource parsons/faculty in lieu of the practicals.
3. Papers/courses for Elective Open Courses can also be taken from Elective specialization courses.


All the Agenda items were approved by the BOS members.


  
Dr. Subhankar Chatterjee  
(Member)

  
Dr. Vikram Singh  
(VC's Nominee)

  
Dr. Dilbag Singh  
(VC's Nominee)

  
Prof. Gurmeet Singh  
(Subject Expert)

  
Prof. Sashi Kant Sharma  
(Subject Expert)

  
Dr. B.C. Chauhan  
(Chairman and Convener)



# THIRD BOARD OF STUDIES MEETING

22nd May, 2019

**Department of Chemistry and Chemical Sciences**  
**School of Physical and Material Sciences**



## Minutes of the Meeting

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Minutes of the Third Meeting of Board of Studies (BoS) of the Department of Chemistry and Chemical Sciences, SoPMS held on 22<sup>nd</sup> May, 2019 at TAB Dhauladhar campus

## Agenda Index

Agenda Item No.	Items	Annexure/Page No.
	Agenda of the Third Meeting	
	Welcome of all the members by the Chairman	
	Introduction of members	
CCS-BoS-3/19-1	Modification and/or finalization of specialized paper which are going to be offered in specialized courses (including practical experiments)	Annexure-I
CCS-BoS-3/19-2	Incorporation of new courses and/or restructuring/modification of the existing courses/syllabus (if any)	Annexure-I
CCS-BoS-3/19-3	To decide the course of action for 3 <sup>rd</sup> semester course structure.	Annexure-II
CCS-BoS-3/19-4	Approval of the extended Expert's List for the Department of Chemistry and Chemical Sciences.	Annexure-III
CCS-BoS-3/19-5	Any other item with the permission of the Chair	



The Third Meeting of Board of Studies (BoS) of the Department of Chemistry and Chemical Sciences, SoPMS was held on 22<sup>nd</sup> May, 2019 at TAB Dhauladhar campus. Find below the Minutes against each Agenda items:-

**Agenda Item No. - CCS-BoS-3/19-1:** Modification and/or finalization of specialized paper which are going to be offered in specialized courses (including practical experiments):

To decide about the courses to be offered to the students of M.Sc. Chemistry as their specialized paper as per the guidelines of UGC and Choice Based Credit System, a curricular Development Committee (CDC) has suggested the courses and on that basis detail syllabus and courses have been framed. The details of the courses along with syllabus are given in Annexure-I. If any modification is needed in the specialized papers, the same will be decided in this meeting (including practical experiments).

**Decision:**

Suggestion regarding courses has been made and all members have agreed and approved it. The suggestions are incorporated in the Annexure-I document.

**Agenda Item No. - CCS-BoS-3/19-2:** Incorporation of new courses and/or restructuring/modification of the existing courses/syllabus (if any), The details of the courses along with syllabus are given in Annexure-I.

**Decision:**

Suggestion regarding incorporation and/or restructuring/ modification of the existing courses/syllabus has been made and all members have agreed and approved it. The suggestions are incorporated in the Annexure-I document. It was also decided that HM and SD courses can be offered from elective open and core open courses.

**Agenda Item No. - CCS-BoS-3/19-3:** To decide the course of action for 3<sup>rd</sup> semester course structure.

Semester wise course structure is given in Annexure-II. As the department is in its developing phase therefore considering the limitation of the department, course of action for 3<sup>rd</sup> semester course structure will be decided.

**Decision:**

Considering the present situation and limitation of the Department it has been decided that in the 3<sup>rd</sup> semester (Monsoon 2019) no specific specialization will be offered, instead one special paper from each specialization will be offered as Special paper-I (SP-I, Organic Chemistry, CCS 566), Special paper-II (SP-II, Inorganic Chemistry, CCS 567), Special paper-III (SP-III, Physical Chemistry, CCS 568) and one combine practical course including organic, inorganic, physical chemistry experiment will be offered in advance practical course (CCS 569) as elective

syllabus for these courses AND/OR can consult the syllabus of the special paper which has been decided earlier.

All members agreed and approved the above.

**Agenda Item No. - CCS-BoS-3/19-4: Approval of the extended Expert's List for the Department of Chemistry and Chemical Sciences.**

The extended Expert's list is given in Annexure-III

**Decision:**

The extended examiner's list as given in Annexure-III has been approved.

**Agenda Item No. - CCS-BoS-3/19-5: Any Other Item with the Permission of the Chair**

Following suggestions have been made by the Subject Experts and Board members:

NIL

All the Agenda items were approved by the BOS members.

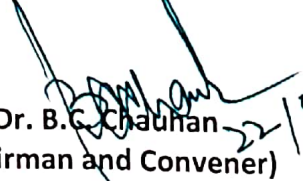
  
Dr. Subhankar Chatterjee  
(Member)

  
Dr. Vikram Singh  
(VC's Nominee)

  
Dr. Dilbag Singh  
(VC's Nominee)

  
Prof. Gurmeet Singh  
(Subject Expert)

  
Prof. Sashi Kant Sharma  
(Subject Expert)

  
Dr. B.C. Chauhan  
(Chairman and Convener)



## **Minutes of the Fourth Board of Studies Meeting**

**Held online via google meet on 28<sup>th</sup> December, 2020 from 11:00 AM onwards**

**Department of Chemistry and Chemical Science  
School of Physical and Material Sciences**

**The fourth Board of Studies ( BOS) Meeting** of the Department of Chemistry and Chemical Science, SoPMS was held via Google Meet ( Online Medium) on 28<sup>th</sup> December, 2020 at TAB Shahpur campus.

**Professor Devinder Kumar Sharma**, Professor Department of Chemistry, H.P University Shimla, **Professor Hum Chand** ,Dean SOPMS and Head Department of Physics and Astronomical Sciences,CUHP, **Professor Bhag Chand Chauhan**, Professor Department of Physics and Astronomical Science, CUHP, **Dr. Sunil Thakur**, Associate Professor, Department of Animal Science, School of Life Sciences,CUHP **Dr. Neeraj Gupta**, Assistant Professor Department of Chemistry and Chemical Science, CUHP and **Dr. Rajender Kumar**, Associate Professor and Head, Department of Chemistry and Chemical Science, CUHP were present in the Meeting.

**Dr. Shashi Kant Sharma** Couldn't attend the meeting due to prior commitment.

The Chairman started the meeting with introduction of Honorable Members of BOS and Following Business was transacted.

- 1. Agenda Item No. CCS-BOS-4/20-1:** Confirmation of Minutes of 3<sup>rd</sup> BOS meeting held on 23<sup>rd</sup> May 2019.

**Resolution No. 1 :** The Minutes of 3<sup>rd</sup> BOS meeting held on 23<sup>rd</sup> May 2019 is given in Annexure I and are approved.

- 2. Agenda Item No. CCS-BOS-4/20-2:** Approval of Supervisor of PhD students Admitted in Session 2020-21 in Department of Chemistry and Chemical Sciences as tabulated below.

The List of Students with Allotted supervisors is given below:

Sr. No.	Student Name	Student Enrollment No.	Supervisor
---------	--------------	------------------------	------------



1.	Ishani Saini	CUHP20 RD CHEM 01	Dr. Rajender Kumar
2.	Kirna Devi	CUHP20 RD CHEM 02	Dr. Rajender Kumar
3.	Manisha Chadha	CUHP20 RD CHEM 03	Dr. Shivani Berry
4.	Pooja Kumari	CUHP20 RD CHEM 04	Dr. Manish Kumar
5.	Purnima Justa	CUHP20 RD CHEM 05	Dr. Pramod Gangwar

### **Resolution No. 2 : Approved**

3. **Agenda Item No. CCS-BOS-4/20-3: Approval of Dr. Rajender Kumar as Co-Supervisor and Supervisor in his parent Institute (Department of Applied Chemistry, SVNIT Surat) from where Dr. Rajender Kumar is on Lien.**

List of PhD students at SVNIT Surat with Dr. Rajender Kumar is given below:

Student Name	Registration No.	Status of PhD Degree	Supervisor /Co-Supervisor
Mrs. Khushbu Patel	D14CY003	PhD Viva Voce held in February 2020	Supervisor ( Dr. Rajender Kumar)
Ms. Jyotsna M Nayak	DS17CY003	In Progress	Supervisor ( Dr. Rajender Kumar)
Mr. Anuj K Saini	D18CY006	In Progress	Co-Supervisor ( Dr. Rajender Kumar)
Mr. Seshu Vardhan	D19CY007	In Progress	Co-Supervisor ( Dr. Rajender Kumar)

### **Resolution No. 3: Approved**



**4. Agenda Item No. CCS-BOS-4/20-4: Approval of Dr. Neraj Gupta as Supervisor/Co-Supervisor for Students in his previous Institute, Shoolini University, Solan, Himachal Pradesh.**

List of PhD students is Given below:

Name of Student	Registration No./Enrollment No.	Status of PhD Degree	Supervisor/Co-Supervisor
Kshipra Sen	1734701006	Viva Voce held on 9 <sup>th</sup> October 2020	Dr Neeraj Gupta (Supervisor)
Deepika Sharma	1734701002	Thesis submitted on 30 <sup>th</sup> Sept 2020	Dr Neeraj Gupta (Supervisor)
Ashima Dogra	1734701008	Thesis submitted on 28 <sup>th</sup> Nov 2020	Dr Neeraj Gupta (Supervisor)
Tokuma Getahun	1834701013	Pre-thesis presentation completed on 14 <sup>th</sup> Oct 2020	Dr Neeraj Gupta (Supervisor)
Shalini Arora*	16301001	Pre-Thesis presentation done in 30 <sup>th</sup> Sept 2020	Dr Neeraj Gupta (Co-supervisor)
Vinit Sharma	1834701003	In Progress	Dr Neeraj Gupta (Supervisor)
Minal Verma (M.Phil student)	1934701002	In progress	Dr Neeraj Gupta (Cosupervisor) for MPhil
*Student registered in PEC University of Technology Chandigarh			

**Resolution No. 4 : Approved**

**5. Agenda Item No. CCS-BOS-4/20-5: Approval of the Course work for PhD students in Department of Chemistry and Chemical Sciences.**

Course Code CCS-700 is given in Annexure II, CCS 701 is given in Annexure III and RPE as recommended by UGC and Adopted by CUHP is given below

Sr No	Course Code	Name of the Course	Credits	Level	Name of the Course Instructor
1.	RPE	Research and Publication Ethics	02	06	--

**Resolution No. 5: Approved**

## 6. Agenda Item No. CCS-BOS-4/20-6: Item from Chair

**No Agenda**

**Dr. Devinder Kumar Sharma ( Member)**  
Professor, Department of Chemistry  
HPU Shimla-05

*11. Chandra*  
*28.12.2020*  
**Dr. Hum Chand ( Member)**  
Professor and Dean, SOPMS  
CUHP-176206

*Bachchan*  
**Dr. Bhag Chand Chauhan (Member)**  
Professor, Department of Physics and Astronomical Science  
CUHP-176206

*28/12/2020*  
**Dr. Sunil Thakur (Member)**  
Department of Animal Sciences  
CUHP-176206

**Dr. Shashi Kant Sharma (Member)**  
Professor , Department of Chemistry  
HPU Shimla-05

*Neeraj Gupta*  
**Dr. Neeraj Gupta (Member)**  
Department of Chemistry and Chemical Science  
CUHP-176206

*Rajender Kumar*  
**Dr. Rajender Kumar (Chairman)** 28.12.2020  
Department of Chemistry and Chemical Science  
CUHP-176206





**हिमाचल प्रदेश केंद्रीय विश्वविद्यालय**  
**Central University of Himachal Pradesh**  
शाहपुर परिसर, जिला कांगड़ा, (हि.प्र.) - 176206  
Shahpur Campus, Distt. Kangra (HP) - 176206  
Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)



**Minutes of the Fifth Board of Studies Meeting**

**Held online via google meet on 23<sup>rd</sup> September, 2021 from 3:00 P.M  
onwards**

**Department of Chemistry and Chemical Science  
School of Physical and Material Sciences**



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

Central University of Himachal Pradesh

शाहपुर परिसर, जिला कांगड़ा, (हि.प्र.) - 176206

Shahpur Campus, Dist. Kangra (HP) - 176206

Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)



The Fifth Board of Studies (BOS) Meeting of the Department of Chemistry and Chemical Science, SoPMS was held via Google Meet (Online Medium) on 23<sup>rd</sup> September, 2021 at Shahpur campus of Central University of Himachal Pradesh.

Professor Shahshi Kant Sharma, Professor Department of Chemistry, H.P University Shimla, Professor Hum Chand, Dean SOPMS and Head Department of Physics and Astronomical Sciences, CUHP, Professor Bhag Chand Chauhan, Professor Department of Physics and Astronomical Science, CUHP, Dr. Sunil Thakur, Associate Professor and Head, Department of Animal Science, School of Life Sciences, CUHP Dr. Neeraj Gupta, Assistant Professor Department of Chemistry and Chemical Science, CUHP and Dr. Rajender Kumar, Associate Professor and Head, Department of Chemistry and Chemical Science, CUHP were present in the Meeting.

Dr. Devinder Kumar Sharma Couldn't attend the meeting due to prior commitment. However, he provided his valuable comments telephonically.

The Chairman started the meeting with Introduction of Honourable Members of BOS and Following Business was transacted.



1. Agenda Item No. CCS-BOS-5/21-1: Confirmation of Minutes of 4<sup>th</sup> BOS meeting held on 28<sup>th</sup> December 2020.

Resolution No. 1 : The Minutes of 4<sup>th</sup> BOS meeting held on 28<sup>th</sup> December 2020 is given in Annexure I and are approved.

2. Agenda Item No. CCS-BOS-5/21-2: In principle approval of Modification/change/Addition etc of M.Sc Chemistry syllabus ( 2 Years programme from Academic Year 2021-22) as required in National Education Policy 2020. Various changes /revisions in syllabus from time to time will be reported in the ensuing BOS Meetings.

Resolution No. 2: Honourable Members deliberated at length and gave their in principle approval to design the syllabus for M.Sc Chemistry ( 2 Year Programme) in line with spirit of National Education Policy (NEP) 2020. Hence Approved.

3. Agenda Item No. CCS-BOS-5/21-3: Scheme of Syllabus for M.Sc. Chemistry two years (Session 2021-22), syllabus as per National Education Policy (NEP) and Guidelines provided by Central University of Himachal Pradesh Vide Committee formed in this respect.

Resolution No.3: Honourable members deliberated on the scheme at Length as given in Annexure II of 5<sup>th</sup> BOS Agenda. Professor, Shashi Kant Sharma, External Subject Expert suggested to make the scheme structure uniform and cohesive. The suggestions were incorporated and accordingly the agenda item is approved.

4. Agenda Item No. CCS-BOS-5/21-4: Detail Syllabus of Courses Semester wise. (Annexure III, IV & V)

Resolution No.4: Honorable members discussed the syllabus semester wise and provided their valuable inputs. As per suggestions of External Subject





expert, Professor Shashi Kant Sharma the units in the syllabus were modified to make the units in all courses concise and uniform. Further as per suggestion of Internal member Dr. Sunil Kumar Thakur, the syllabus will be remodified as and when future guidelines from university in this regard are released. The Agenda Item is approved.

5. Agenda Item No. CCS-BOS-5/21-5: Exit /Entry Option for M.Sc Chemistry Students after Completion of First Two Semester of course.

Resolution No.5: Professor B.C Chauhan, Internal Member suggested to change Advanced Diploma in Chemical Sciences to Post Graduate Diploma in Chemical Sciences. Accordingly the Students after completion of first two semester of M.Sc Chemistry Course will be awarded Post Graduate Diploma in Chemistry. The agenda item is approved with this modification.

6. Agenda Item No. CCS-BOS-6/21-6: Adoption of NEP Guidelines as Proposed by the Committee constituted by Central University of Himachal Pradesh for Implementation of National Education Policy 2020 from Academic Session 2021-22.

Resolution No. 6: Professor Shashi Kant Sharma suggested to make scheme for distribution of Marks for Various examinations and also to include multiple choice questions (MCQs) in Examinations. All members appreciated the suggestion and it was resolved that the uniform marks distribution and pattern of question papers will be followed as decided by Central University of Himachal Pradesh to have university wide uniformity. Agenda Item Approved.



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आज़ादी का  
अमृत महोत्सव

7. Agenda Item No. CCS-BOS-5/21-7: Item from Chair: (1) For reporting and Noting of PhD Co-Supervisor ship of Dr. Manish Kumar at Sri.Sai University Palampur ( H.P).

Resolution No. 7 (1): On basis of request received from Dr. Manish Kumar Assistant Professor, Department of Chemistry and Chemical Science, Central University of Himachal Pradesh, members noted the status of Dr. Manish Kumar as PhD Co-supervisor of Ms.Atul ( Roll No. 714024001). The PhD viva-voce examination of Ms. Atul was held on 18-02-2020. at Sri.Sai University Palampur.

Item from Chair: (2) Scheme of PhD Course work from Session 2021 onwards as per NEP Guidelines (Annexure VII)

Resolution No. 7 (2): Approved

In the end Professor Shashi Kant, External Member suggested that as per the New Curriculum scheme which requires publication of Research Papers/Conference presentation etc and research dissertation in 4<sup>th</sup> Semester will require tremendous infrastructure and financial support. Hence University may be requested to allocate grants for development of Infrastructure like Scientific equipment's, Software's, Computer systems, etc so that required research environment could be created. All members appreciated this and approved to convey to university for necessary action.

by Email-(Attached)

Dr. Shashi Kant Sharma (Member)  
Professor, Department of Chemistry  
Himachal Pradesh University Shimla-05

by Email (Attached)

Dr. Devinder Kumar Sharma  
Professor, Department of Chemistry  
Himachal Pradesh University Shimla-05





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7/5  
आचार्य  
अमृत महाराय

H. Chand

Dr. Hum Chand (Member)  
Dean SOPMS & Professor  
Department of Physics and Astronomical  
Science, CUHP-176206

Sunil Thakur

Dr. Sunil Thakur (Member)  
Associate Professor & Head, Department  
of Animal Sciences, CUHP-  
176206

M. Gupta

Dr. Bhag Chand Chauhan (Member)  
Professor, Department of Physics and  
Astronomical Science, SOPMS, CUHP-  
176206

Dr. Neeraj Gupta (Member)  
Assistant Professor, Department of  
Chemistry and Chemical Science  
CUHP-176206

Rajender Kumar

Dr. Rajender Kumar (Chairman)  
Department of Chemistry and Chemical Science  
CUHP-176206



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Central University of Himachal Pradesh  
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शैक्षणिक खण्ड, शाहपुर, जिला कौगड़ा, हिमाचल प्रदेश - 176206  
Academic Block, Shahpur, Distt. Kangra (HP) - 176206  
Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

Ref. No. CCS/1-5/CDC.BoS/CUHP/17/149

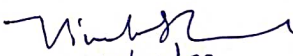
Date: 27.03.2023

**List of new courses introduced**

This is to certify that following courses (appended below) have been revised as per CUHP guidelines and approved by Board of Studies w.e.f. session 2021-22.

S.N	Name of Course	Course Code	Semester
1.	Inorganic Chemistry -I	CCS 511	Semester -I
2.	Organic Chemistry -I	CCS 512	Semester -I
3.	Physical Chemistry -I	CCS 513	Semester -I
4.	Advance Aanalytical Techniques	CCS 514	Semester -I
5.	Practical I	CCS 515	Semester -I
6.	Spectroscopic techniques	CCS 516	Semester -I
7.	Commercial and Green Synthesis	CCS 517	Semester -I
8.	IKS	CCS-519	Semester -I
9.	Nanoscience	CCS 518	Semester -I
10.	Inorganic Chemistry II	CCS 521	Semester -II
11.	Organic Chemistry II	CCS 522	Semester -II
12.	Physical Chemisrty II	CCS 523	Semester -II
13.	Bio-Chemistry	CCS 524	Semester -II
14.	Practical	CCS 525	Semester -II
15.	Natural Products in Medicinal Chemistry Credits	CCS 526	Semester -II

16.	IKS(History of Chemistry	CCS 527	Semester -II
17.	Inorganic Chemistry Specialization -I	CCS 611	Semester -III
18.	Organic chemistry Specialization-I	CCS612	Semester -III
19.	Physical Chemistry Specialization-I	CCS613	Semester -III
20.	Research and Methodology	CCS614	Semester -III
21.	Software based data Analysis	CCS615	Semester -III
22.	Inorganic Chemistry specialization- II	CCS 621	Semester -IV
23.	Organic Chemistry Specialization II	CCS 622	Semester -IV
24.	Physical Chemistry Specialization	CCS 623	Semester -IV
25.	Academic Writings	CCS 624	Semester -IV
26.	Practical (Paper Publications/Seminar-Conference Presentation at National) Level	CCS 625	Semester -IV
27.	Subject based data analysis and interpretation	CCS 626	Semester -IV
28.	Dissertation and presentation/Viva-Voce	CCS 627	Semester -IV

  
27/03/23 Head

**Department of Chemistry and Chemical Science**

Head, Dept. of Chemistry & Chemical Sciences

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

Central University of Himachal Pradesh

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